

AMENDMENTS TO THE CLAIMS

Claims 1-15 (Cancelled)

Claim 16 (Currently Amended) A data processing system, comprising:

a first data processing unit operable to perform data processing according to a program control;

a plurality of at least two second data processing units, each of said second data processing units being operable to perform data processing according to a wired logic control, and each of said plurality of second processing units comprising:

 a calculating unit; and

 a selector unit;

 a storage unit operable to store data;

 a first data transfer unit operable to connect said first data processing unit with each of said plurality of second data processing units, via said storage unit; and

 a second data transfer unit operable to connect each of said plurality of second data processing units,

 wherein said selector unit is operable to determine a destination of a data transfer from among each of said plurality of second data processing units, according to a link map table.

Claim 17 (Previously Presented) The data processing system according to Claim 16, wherein said first data processing unit is operable to control the data transfer via said second data transfer unit.

Claim 18 (Previously Presented) The data processing system according to claim 16, further comprising a first data transfer control unit operable to control the data transfer via said second data transfer unit.

Claim 19 (Previously Presented) The data processing system according to Claim 16, wherein said second data processing unit is operable to perform an encoding process.

Claim 20 (Previously Presented) The data processing system according to Claim 16, wherein said second data processing unit is operable to perform a decoding process.